

Application No. 10/556,457

9

RECEIVED  
CENTRAL FAX CENTER  
NOV 17 2006

Patent claims

- 5 1. Fine tuning device for transferring and/or tipping an object, wherein a carrier element is provided that can be rotated around a rotational axis guided by a guide element, whereby tipping between the carrier element and the guide element is achieved by defining a guide plane that describes an angle other than 90° around the rotational axis and/or sliding of the object is achieved by means of
- 10 an offset that is attached to the carrier element lateral to the rotational axis.
2. Fine tuning device according to claim 1, wherein the guide element is guided by a further guide element around the rotational axis or a further rotational axis.
3. Fine tuning device according to one of claims 1 or 2, wherein the fine
- 15 tuning device can be integrated as an element into a further fine tuning device.
4. Fine tuning device according to claim 3, wherein the further fine tuning device comprises a fine tuning device according to one of claims 1 or 2.
5. Fine tuning device according to one of claims 1 to 4, wherein the carrier element and/or the guide element and/or the further guide element are round in
- 20 cross-section.
6. Fine tuning device according to one of claims 1 to 5, wherein the guide element exhibits a recess within which the guide element can be rotated.
7. Fine tuning device according to one of claims 1 to 6, wherein the further guide element exhibits a recess within which the guide element can be rotated.
- 25 8. Fine tuning device according to one of claims 6 or 7, wherein the recess is eccentric.

Application No. 10/556,457

## 10

9. Fine tuning device according to one of claims 1 to 8, wherein a control lever may be inserted into the carrier element and/or the guide element and/or the further guide element
10. Fine tuning device according to one of claims 1 to 9, wherein the guide element and/or the further guide element can be slid in the direction of the rotational axis and/or the further rotational axis.
11. Fine tuning device according to claim 10, wherein the guide element and/or the further guide element exhibit a screw thread.
12. Fine tuning device according to one of claims 1 to 11, wherein elements that touch each other directly are made of different materials.
13. Fine tuning device according to one of claims 1 to 12, wherein the object is an optical component, in particular an objective.
14. Microscope with a fine tuning device according to one of claims 1 to 13.
15. Microscope according to claim 14, wherein the microscope is a scanning microscope, a confocal scanning microscope, a 4 pi microscope, or a theta microscope.